18 27 36 5' NGA ACT CTA ATA CGA GCA C'TA TAG GGA AAG CTG GTA GCC TGC AGG TAC CGG TCC 63 72 81 90 99 GGA ATT CCC GGG TCG ACC CAC GCG TCC GCC GTG CCC TTG GGG CTC CGT GTC CTG 126 135 117 144 153 CTG TCT TTC CGT CCG CTG CCT AGT CTG CAT CTG AGT AAC ATG GCG GCG GCG GCG 171 180 189 198 207 216 GTA GCC AGG CTG TGG TGG CGC GGG ATC TTG GGG GCC TCG GCG CTG ACC AGG GGG R L W W R G I L G A S A L T R 234 243 252 261 -ACT GGG CGA CCC TCC GTT CTG TTG CTG CCG GTG AGG CGG GAG AGC GCC GGG GCC L L P V P S V L R R E 297 306 279 288 315 GAC ACG CGC CCC ACT GTC AGA CCA CGG AAT GAT GTG GCC CAC AAG CAG CTC TCA R P T V R P R N D V A H K Q L 351 360 369 342 GCT TTT GGA GAG TAT GTG GCT GAA ATC TTG CCC AAG TAT GTC CAA CAA GTT CAG E I L P K Y V E Y V A 396 ^ 387 405 414 423 GTG TCC TGC TTC AAT GAG TTA GAG GTC TGT ATC CAT CCT GAT GGC GTC ATC CCA CFNELEVCIHPD 477 459 468 450 441 GTG CTG ACT TTC CTC AGG GAT CAC ACC AAT GCA CAG TTC AAA TCT CTG GTT GAC Q F K T N A R D H T F L 513 522 531 495 504 TTG ACA GCA GTG GAC GTC CCA ACT CGG CAA AAC CGT TTT GAG ATT GTC TAC AAC A V D V F T R Q N R F E 585 57o 567 558 CTG TTG TCT CTG CGC TTC AIAC TCA CGG ATC COT GTG AAG ACC TAC ACA GAT GAG

CTG L	ACG T	603 CCC P	ATT I	GAG E	612 TCT S	GCT A	GTC V	621 TCT S		TTC F	630 AAG K		GCC A	639 AAC N		TAT Y	648 GAA E
AGG R	GAG E	657 ATC I	TGG W	GAC D	666 ATG M	TTT F	GGA G		TTC F		684 GCT A		CAC H	693 CCT P	GAT D	CTA L	702 AGA R
AGG R	ATC I	711 CTG L	ACA T	GAT D	720 TAT Y	GGC G	TTC F	729 GAG E			738 CCT P	TTC F	CGG R	747 AAA K	GAC D	TTT F	756 CCT P
CTA L	TCT S	765 GGC G	TAT Y	GTT V	774 GAG E	TTA L	CGT R		GAT D		792 GAA E	GTG V	AAG K	801 CGT R	GTG V	GTG V	810 GCA A
GAG E	CCG P	819 GTG V	GAG E	TTG L	828 GCC A	CAA Q	GAG E		CGC R		846 TTT F	GAC D	CTG L	855 AAC N	AGC S	CCC P	864 TGG W
GAG E		873 TTC F	CCA P	GTC V	882 TAT Y	CGC- R	-CAA. Q		CCG P		900 AGT S	CTC L -		909 CTT L	GAA E	GCC A	918 GGA G
GAC D		927 AAG K	CCT P	GAT D		aag K	TAG		CAG		954 ACG	CAT	GTG	963 GAT	CCT	AGA	972 CAG
CGC	CTT	981 ATC	ТАТ	GAT	990 TGA	GTG	TCC	999 GTG	TAA	_	8001 AAT	TCC		L017 TTA	GAC	TTA	C 3'

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5' NCC AAG ATG TCG TTC CCA AAG TAT AAG CCG TCG AGC CTG CGC ACT CTG CCT GAG $\begin{smallmatrix} M & & S & & F & & P & & K & & Y & & K & & P & & S & & S & & L & & R & & T & & L & & P & & E \\ \end{smallmatrix}$ ACC CTC GAC CCA GCC GAA TAC AAC ATA TCT CCG GAA ACC CGG CGG GCG CAA GCG T L D P A E Y N I S P E T R R A Q A GAG CGG TTG GCC ATA AGA GCC CAG CTG AAA CGA GAG TAC CTG CTT CAG TAC AAC LAIRAQLKREYLLQYN GAT CCC AAC CGC CGA GGG CTC ATC GAA AAT CCT GCC TTG CTT CGT TGG GCC TAT D P N R R G L I E N P A L L R W A Y GCA AGA ACA ATA AAT GTC TAT CCT AAT TTC AGA CCC ACT CCT AAA AAC TCA CTC TINVYPNFRPTPKNSL ATG GGA GCT CTG TGT GGA TTT GGG CCC CTC ATC TTC ATT TAT TAT ATT ATC AAA MGALC G F G P L I F I Y Y I I K ACT GAG AGG GAT AGG AAA GAA AAA CTT ATC CAG GAA GGA AAA TTG GAT CGA ACA T E R D R K E K L I Q E G K L D R T TTT CAC CTC TCA TAT TAA GTC TGG CAA TGA TGA CTA TAT GTA TTC CTG CCT AAA F H L S Y TAA ATC ATC TAT TAA TCA TT 3'

FIGURE 2

18 27 36 45 54 5' NNA GCT AGT CGT TCT GAA GCG GCC GCC AGA GAA GAG TCA AGG GCA CGA GCA TCG GCC ATG CCT TTC TTG GAC ATC CAG AAA AGG TTC GGC CTT AAC ATA GAT CGA TGG $\begin{smallmatrix} M \end{smallmatrix} \ \ P \ \ F \ \ L \ \ D \ \ I \ \ Q \ \ K \ \ R \ \ F \ \ G \ \ L \ \ N \ \ I \ \ D \ \ R \ \ W$ TTG ACA ATC CAG AGT GGT GAA CAG CCC TAC AAG ATG GCT GGT CGA TGC CAT GCT TTT GAA AAA GAA TGG ATA GAA TGT GCA CAT GGA ATC GGT TAT ACT CGG GCA GAG F E K E W I E C A H G I G Y T R A E AAA GAG TGC AAG ATA GAA TAT GAT GAT TTC GTA GAG TGT TTG CTT CGG CAG AAA K E C K I E Y D D F V E C L L R Q K ACG ATG AGA CGT GCA GGT ACC ATC AGG AAG CAG CGG GAT AAG CTG ATA AAG GAA T M R R A G T I R K Q R D K L I K E GGA AAG TAC ACC CCT CCA CCT CAC CAC ATT GGC AAG GGG GAG CCT CGG CCC TGA G K Y T P P P H H I G K G E P R P 423 432 ACA GAG CAG CTG ATG TCT GGA GGC TGA TTT TCC TGT TCT CTG TTC TCC ACT GGA AAG GTT GTT TAC GAC AAA CCT CCT TGT CAA AGT GTG T 3 $^{\circ}$

5' CGC AGA GGA GGA GAA AGC TGA CCG CTT AGG CCC GGG TAG TGG TCG TGG TTT TCC TTG TAG TTC GTG GTC TGA GAC CAG GCC TCA AGT GGA AAC GGC GTC ACC ATG ATC GCA CGG CGG AAC CCA GAA CCC TTA CGG TTT CTG CCG GAT GAG GCC CGG MIARRNPEPLRFLPDE AGC CTG CCC CCG CCC AAG CTG ACC GAC CCG CGG CTC CTC TAC ATC GGC TTC TTG PPPKLTDPRLLYI GGC TAC TGC TCC GGC CTG ATT GAT AAC CTG ATC CGG CGG AGG CCG ATC GCG ACG C S G L I D N L I R R P I A T GCT GGT TTG CAT CGC CAG NTT NTA TAT ACT ACG GCC TTT TTT TTT GCT GGA TAT A G L H R Q X X Y I T A F F F A G Y TAT NTT GTA AAA CGT GAA GAC TAC CTG TAT GCT GTG AGG GAC CGT GAA ATG TTT Y X V K R E D Y L Y A V R D R E M F GGA TAT ATG AAA TTA CAT CCA GAG GAT TTT CCT GAA GAA GAT AAG AAA ACA TAT M K L H P E D F P E E D K K T Y GGT GAA ATT TTT GAA AAA TTC CAT CCA ATA CGT TGA AGT CTT CAA AAT GCT TGC F E K F H P I R TCC AGT TTC ACT GAT ACC TGC TGT TTC TGA ATT TGA TGG AAC ATG TTT CTT ATG ACA GTT GAA GCT TAT GCT AAT CTG TAT GTT GAC ACC 3'

FIGURE 4

MAAAAVARLM - - WRGILGASALTRGTGRPSVLLLPVRRES NDS-1 MAAAVAAAPGCWORLVGSAAPARVAGRPSVLLLPVRRES 9163416

AGADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVQQVQV NDS-1 SAADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVOOVQV g163416 8 3 4

SCFNELEVCIHPDGVIPVLTFLRDHTNAQFKSLVDLTAVD NDS-1 SCFNELEICIHPDGVIPVLTFLRDHSNAQFKSLADLTAVD 9163416 ಬ ಜ

119 VPTRONRFEIVYNLLSLRFNSRIRVKTYTDELTPIESAVS NDS-1 121 IPTRONRFEIVYNLLSLRFNSRIRVKTYTDELTPIES|SUP 9163416

g163416 NDS-1 159 VEKAANWYEREIWDMFGVFFANHPDLRRILTDYGFEGHPF 161 VYKAANWYEREIWDMFGVFFANHPDLRRILTDYGFEGHPF

199 RKDFPLSGYVELRYDDEVKRVVAEPVELAQEFRKFDLNSP NDS-1 201 RKDFPLSGYVELRYDDEVKRVVAEPVELAQEFRKFDLNSP g163416

239 WEAFPUYROPPESLKLEAGDKKPDAK 241 WEAFPAYROPPESLKLEAGDTKPEAK

NDS-1 g163416

FIGURE 5

FIGURE 6

FIGURE 7

FLDIOKRIGLNIDRWLTIQSGEQPYKMAGRCHAFEKEW MIS-3 FFDVOKRLGVDLDRWMTIQSAEOPHKIPSRCHAFEKEW 9224	CCA	QRDKLIKEGKYTPPPHHIGKGEPRP QREKLIKEGKYTPPPHHSGQEEPRS
MPFLDI MPFFDV	I E C A H I E C A H	K Q R D K R Q R E K
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FIGURE 8

S-4	NDS-4 9582	S-4 182
C 9582	<u>□</u> □	医 因
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H H	Z Z K	H F H
X I G	X X X	표 교 [
LLL	A G	E I
A - RRNPEPLRFLPDEARSLPPPKLTDPRLLYIGFLGYC N TGROGRATFOFLPDEARSLPPPKLTDPRLAFVGFLGYC 9	NILITR R PILATAGLHROXXYITAFFFAGYYXVKRED N NATR R PVILLAGLHROLLYITSFVFVGYYLLKROD 9	TO THE WALLED FEEDKKTYGELFEKFHPIR TLYAVRDREMFGYMKLHPEDFPEEDKKTYGEVFEEFHPVR
LTI	TAI	X X X X
고 고 고	X I	E D
4 4	N I	다 다 퍼 퍼
R S I	H R O	日 日 日
E A A	2 G	д н
7.7 G G	A T A	M K L
다. 다. 다.	PII	S Y
T L	24 24 24 24	MF
R E	H H	ORE OHD
R R R O O	SGLIDNL	V R I
T A -	H +	X X A X
ΗW	. S G	M K A
<u> </u>	4 8 5	4 88

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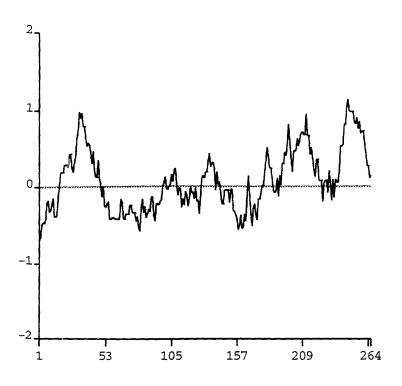


FIGURE 9A

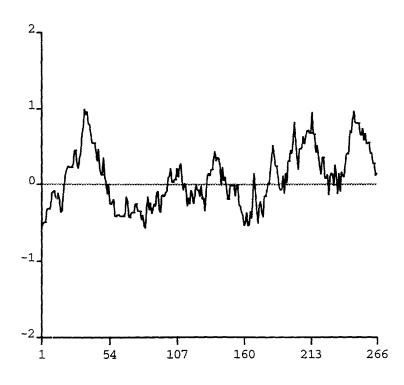


FIGURE 9B

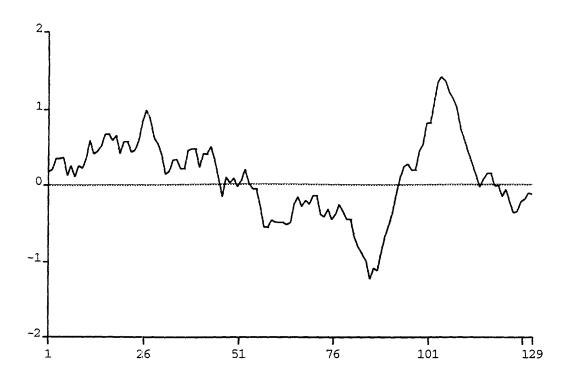


FIGURE 10A

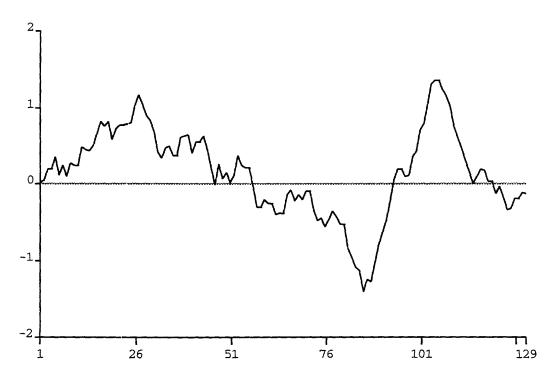


FIGURE 10B

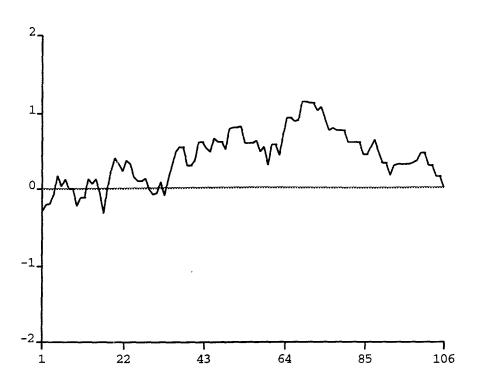


FIGURE 11A

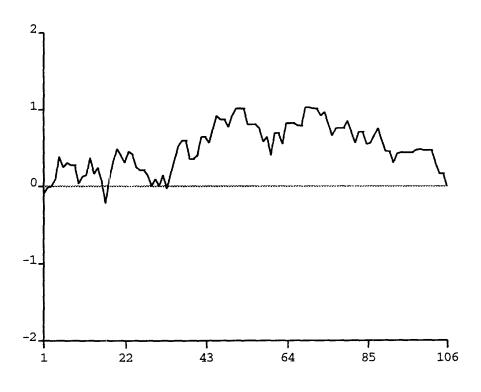


FIGURE 11B

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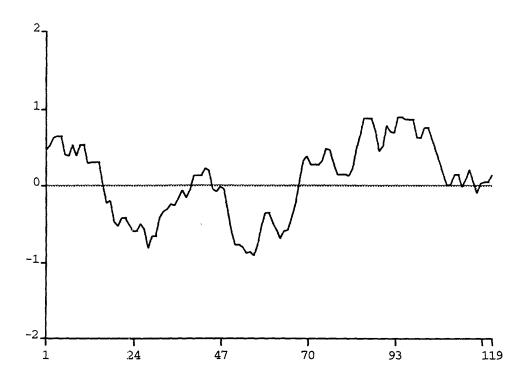


FIGURE 12A

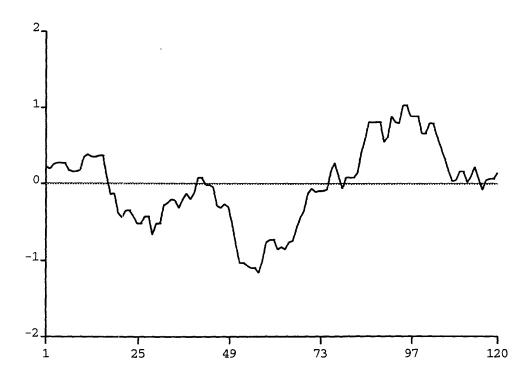


FIGURE 12B

Constitution of the same of the first same of th